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(72)Inventor : SUZUKI TATSUHIKO  
TERAMOTO HIRONOBU

**SOLUTION:** This method for cleaning the membrane module with the liquid chemical comprises a step of introducing compressed air into the membrane from one end of the membrane module and recovering the treated water in the membrane from the other end of the membrane module into a treated water tank after the membrane module is used at a filtration step, a step of injecting the liquid chemical into the treated water-removed membrane from one end of the membrane module, a step of introducing the compressed air into the liquid chemical-injected membrane from one end of the membrane module and extruding the injected liquid chemical to the outside of the membrane and a treated water introducing step of introducing the treated water into the liquid chemical-extruded membrane and filling the inside of the membrane with the treated water.

